## Subject index to Volume 9 (1978)

This index lists the key-words given at the head of the papers. The page numbers refer to the first pages of papers.

adenosine deaminase         191, 215         Equus asinus         9           albumin         169         erythrocyte         41, 161, 239           — variants         181         – chimaerism         3           — polymorphism         9         esterase, serum         197, 207           aldehyde dehydrogenase         85         evolution, molecular         105           aldehyde oxidase         85         excess, heterozygous         55           allele, null         197         fish         133           allotype         21, 59, 105         fluorescein diacetate         65           antigen         21         frequency, breed         207, 239           —, blood group         3         Gc protein         29, 37, 123, 169           —, lymphocyte         47         gene frequency         97, 127, 161           assay, enzyme         197         genetics, population         183           autoradiography         37, 51, 133         geographic variation         183           bison         65         glycoprotein         41           blood group system, B         47         halothane         253           Bovidae         175         hampoly         19           —	ADA	191	equilibrium, Hardy-Weinberg			55
- variants	adenosine deaminase	191, 215				9
− variants         181         − chimaerism         3           − polymorphism         9         esterase, serum         197, 207           aldehyde dehydrogenase         85         evolution, molecular         105           allede, null         197         5ish         139           allotype         21, 59, 105         fluorescein diacetate         65           amylase         229         frequency, breed         207, 239           −, blood group         3         Gc protein         29, 37, 123, 169           −, lymphocyte         47         gene frequency         97, 127, 161           assay, enzyme         197         genetics, population         183           autoradiography         37, 51, 133         geographic variation         1 183           bison         65         glycoprotein         41           blood group system, B         47         halothane         253           bedod group system, B         47         halothane         253           buffalo         175         hemoglobin         55           cartle 3, 21, 37, 47, 59, 65, 105, 133, 175, 181,         heterozygous excess         55           cattle 3, 21, 37, 47, 59, 65, 105, 133, 175, 181,         heterozygous excess         55 <td>albumin</td> <td>169</td> <td></td> <td>41.</td> <td>161.</td> <td>239</td>	albumin	169		41.	161.	239
aldehyde oxidase aldehyde oxidase aldehyde oxidase aldele, null allele, null 197 allotype 21, 59, 105 amylase 229 contingen 21 frequency, breed 207, 239 contingen 37, 51, 133 georaphic variation 139 autoradiography 37, 51, 133 georaphic variation 183 autoradiography 37, 51, 133 georaphic variation 183 abison 180 blood group system 180 breed frequency 180 180 180 180 180 180 180 180 180 180	- variants	181	- chimaerism	,		
aldehyde oxidase         85         evolution, molecular cxcess, heterozygous         105           allele, null         197         fish         139           allotype         21, 59, 105         fluorescein diacetate         65           antigen         21         frequency, breed         207, 239           -, blood group         3         Gc protein         29, 37, 123, 169           -, red cell         41, 47         gene frequency         29           -, red cell         41, 47         genetics, population         183           autoradiography         37, 51, 133         georaphic variation         13           blood group system         47         genetics, population         183           blood group system         47         gern cell chimaerism         3           blood group system, B         47         halothane         253           Bovidae         175         Hardy-Weinberg equilibrium         55           breed frequency         207, 239         hemopexin         151           -, water         105, 133         heterozygosity         69           cartbonic anhydrase         65         heterozygous excess         55           cattle 3, 21, 37, 47, 59, 65, 105, 133, 175, 181,         hemop	<ul> <li>polymorphism</li> </ul>	9	esterase, serum		197,	207
Aldehyde oxidase   85   cxcess, heterozygous   55   3   3   3   3   3   3   3   3	aldehyde dehydrogenase	85	evolution, molecular			
allele, null         197         fish         139           allotype         21, 59, 105         fluorescein diacetate         65           amylase         229         formaldehyde dehydrogenase         85           antigen         21         frequency, breed         207, 239           –, blood group         3         Gc protein         29, 37, 123, 169           –, lymphocyte         47         gene frequency         29           –, red cell         41, 47         genetic marker         97, 127, 161           assay, enzyme         197         genetic, population         183           autoradiography         37, 51, 133         georgaphic variation         183           blood group system         47         germ cell chimaerism         3           blood group antigen         3         goose         1229           blood group system, B         47         halothane         253           Bovidae         175         Hardy-Weinberg equilibrium         55           breed frequency         207, 239         hemogebin         79, 183           buffalo         175         hemogexin         151           -, water         105, 133         175, 181         heterozygosity         69		85				
amtigen 229 formaldehyde dehydrogenase 85 antigen 211 frequency, breed 207, 239 cp. plood group 3 Gc protein 29, 37, 123, 169 gene frequency 9, 7, 127, 161 assay, enzyme 197 genetics, population 183 autoradiography 37, 51, 133 geographic variation 13 germ cell chimaerism 3 geographic variation 13 germ cell chimaerism 3 geographic variation 13 germ cell chimaerism 253 blood group system, B 47 halothane 253 breed frequency 207, 239 hemoglobin 79, 183 buffalo 175 hemopexin 151 hemopexin 151 years 105, 133 heterozygosity 69 carbonic anhydrase 65 heterozygosity 69 carbonic anhydrase 65 cattle 3, 21, 37, 47, 59, 65, 105, 133, 175, 181, 191, 229 horse 29, 37, 41, 97, 123, 127, 169, 197, 207 cell line 175 immunoelectrophoresis chicken 215 immunoglobulin G 59 chimaerism 215 chimaerism 216 immunoglobulin G 59 chimaerism 217 cellogel electrophoresis 123 chobytis biwae 187 Landrace 2253 Cobytis delicata 183 linkage 151, 169, 191 cloud chook 29 loach 183, 187 clectrofocusing 151 clectrophoresis 123 chow-density 1ipoprotein 21 conalbumin 129 clectrophoresis 123 chow-density 1ipoprotein 21 clectrophoresis 29, 37, 41, 97, 123, 127, 169, 197, 107, 101, 101, 111, 111, 111, 111, 11	allele, null	197				139
amtigen 229 formaldehyde dehydrogenase 85 antigen 211 frequency, breed 207, 239 cp. plood group 3 Gc protein 29, 37, 123, 169 gene frequency 9, 7, 127, 161 assay, enzyme 197 genetics, population 183 autoradiography 37, 51, 133 geographic variation 13 germ cell chimaerism 3 geographic variation 13 germ cell chimaerism 3 geographic variation 13 germ cell chimaerism 253 blood group system, B 47 halothane 253 breed frequency 207, 239 hemoglobin 79, 183 buffalo 175 hemopexin 151 hemopexin 151 years 105, 133 heterozygosity 69 carbonic anhydrase 65 heterozygosity 69 carbonic anhydrase 65 cattle 3, 21, 37, 47, 59, 65, 105, 133, 175, 181, 191, 229 horse 29, 37, 41, 97, 123, 127, 169, 197, 207 cell line 175 immunoelectrophoresis chicken 215 immunoglobulin G 59 chimaerism 215 chimaerism 216 immunoglobulin G 59 chimaerism 217 cellogel electrophoresis 123 chobytis biwae 187 Landrace 2253 Cobytis delicata 183 linkage 151, 169, 191 cloud chook 29 loach 183, 187 clectrofocusing 151 clectrophoresis 123 chow-density 1ipoprotein 21 conalbumin 129 clectrophoresis 123 chow-density 1ipoprotein 21 clectrophoresis 29, 37, 41, 97, 123, 127, 169, 197, 107, 101, 101, 111, 111, 111, 111, 11	allotype	21, 59, 105	fluorescein diacetate			65
antigen	amylase		formaldehyde dehydrogenase			85
-, blood group -, lymphocyte -, red cell -, lymphocyte -, lymphocyte -, germ cell -, starch gel 9, 51, 65, 85, 97, 129, 133, 139, nembrane -, retycloptoretic variant -, lymphocyte -, red cell -, red cell -, red cell -, lymphocyte -, lymphocyte -, germ cell -, immunofixation -, starch gel 9, 51, 65, 85, 97, 129, 133, 139, nembrane -, red cell -, red cell -, red cell -, lymphocyte -, starch gel 9, 51, 65, 85, 97, 129, 133, 139, nembrane -, red cell -, red cell -, red cell -, lymphocyte -, starch gel 9, 51, 65, 85, 97, 129, 133, 139, nembrane -, low-density lipoprotein -, red cell -, red cell -, immunofixation -, cellogel -, immunofixation -, cellogel -, starch gel 9, 51, 65, 85, 97, 129, 133, 139, nembrane -, starch gel 9, 51, 65, 85, 97, 129, 133, 139, nembrane -, low-density lipoprotein -, starch gel 9, 51, 65, 85, 97, 129, 133, 139, nembrane -, low-density lipoprotein -, starch gel 9, 51, 65, 85, 97, 129, 133, 139, nembrane -, low-density lipoprotein -, starch gel 9, 51, 65, 85, 97, 129, 133, 139, nembrane -, low-density lipoprotein -, starch gel 9, 51, 65, 85, 97, 129, 133, 139, nembrane -, low-density lipoprotein -, starch gel 9, 51, 65, 85, 97, 129, 133, 139, nembrane -, low-density lipoprotein -, antigen -, antig	-	21			207.	239
-, lymphocyte	-, blood group	3	Gc protein	29, 37,	123.	169
-, red cell assay, enzyme 197 genetics, population 183 autoradiography 37, 51, 133 geographic variation 133 bison 65 glycoprotein 41 blood group system 47 germ cell chimaerism 3 goose 129 blood group antigen 3 goose 129 blood group system, B 47 halothane 253 Bovidae 175 Hardy-Weinberg equilibrium 55 breed frequency 207, 239 hemoglobin 79, 183 buffalo 175 hemopexin 151 hemopexin 151 hemopexin 151 hemopexin 151 herozygosity 66 carbonic anhydrase 65 cattle 3, 21, 37, 47, 59, 65, 105, 133, 175, 181, 191, 229 horse 29, 37, 41, 97, 123, 127, 169, 197, 207 cell line 175 immunoelectrophoresis, rocket 197 cellogel electrophoresis 175 immunoelectrophoresis, rocket 197 immunoelectrophoresis, rocket 197 germ cell 3 lactase dehydrogenase 139 Cobytis biwae 187 Landrace 253 Cobytis delicata 183 linkage 151, 169, 191 conalbumin 129 lipoprotein 21 cyprinidae 139 —, low-density lipoprotein 21 electrophoresis —, cellogel 175 — antigen 47 major histocompatibility complex 115 —, immunofixation = 29, 37 —, starch gel 9, 51, 65, 85, 97, 129, 133, 139, 161, 181, 183, 187, 191, 215, 229, 239 method 65 electrophoretic variant 51, 79, 151 membrane 41 microal and survival		47			,	
assay, enzyme	-, red cell	41, 47	genetic marker	97.	127,	161
autoradiography 37, 51, 133 geographic variation 13 B blood group system 47 germ cell chimaerism 3 bison 65 glycoprotein 41 blood group antigen 3 geose 129 blood group system, B 47 halothane 253 Bovidae 175 Hardy-Weinberg equilibrium 55 breed frequency 207, 239 hemoglobin 79, 183 buffalo 175 hemopexin 151 -, water 105, 133 heterozygosity 69 carbonic anhydrase 65 heterozygous excess 55 cattle 3, 21, 37, 47, 59, 65, 105, 133, 175, 181, 191, 229 cell line 175 immunofixation electrophoresis 123 chicken 215 immunofixation electrophoresis 123 Cobytis biwae 187 Landrace 253 Cobytis delicata 183 linkage 151, 169, 191 conalbumin 129 lipoprotein 21 Cyprinidae 139 —, low-density lipoprotein 21 Cyprinidae 139 —, low-density lipoprotein 21 cyprinidae 29, 37 -, starch gel 9, 51, 65, 85, 97, 129, 133, 139, 161, 181, 183, 187, 191, 215, 229, 239 electrophoretic variant 51, 79, 151 enzyme assay 197 molecular evolution 105	assay, enzyme	197	genetics, population			183
bison 65 glycoprotein 41 blood group antigen 3 goose 129 blood group system, B 47 halothane 253 Bovidae 175 Hardy-Weinberg equilibrium 55 breed frequency 207, 239 hemoglobin 79, 183 buffalo 175 hemopexin 151 -, water 105, 133 heterozygosity 69 carbonic anhydrase 65 cattle 3, 21, 37, 47, 59, 65, 105, 133, 175, 181, histocompatibility complex, major 115 cattle 3, 21, 37, 47, 59, 65, 105, 133, 175, 181, histocompatibility complex, major 115 cell line 175 immunoelectrophoresis, rocket 197 cell logel electrophoresis 175 immunoelectrophoresis, rocket 197 cellogel electrophoresis 175 immunoglobulin G 59 chimaerism 175 inheritance, red cell 215 -, erythrocyte 3 lactase dehydrogenase 139 Cobytis biwae 187 Landrace 253 Cobytis biwae 188 Landrace 253 Cobytis delicata 183 linkage 151, 169, 191 Cyprinidae 139 -, low-density 21 conalbumin 129 lipoprotein 21 Cyprinidae 139 -, low-density 21 donkey 9 loach 183, 187 electrophoresis, cellogel 175 - antigen 47 -, immunofixation 123 major histocompatibility complex 115 -, polyacrylamide gel 29, 37 -, starch gel 9, 51, 65, 85, 97, 129, 133, 139, 161 -, starch gel 9, 51, 65, 85, 97, 129, 133, 139, 161 -, starch gel 9, 51, 65, 85, 97, 129, 133, 139, 161 -, starch gel 9, 51, 65, 85, 97, 129, 133, 139, 161 -, starch gel 9, 51, 65, 85, 97, 129, 133, 139, 161 -, starch gel 9, 51, 65, 85, 97, 129, 133, 139, 161 -, starch gel 9, 51, 65, 85, 97, 129, 133, 139, 161 -, starch gel 9, 51, 65, 85, 97, 129, 133, 139, 161 -, starch gel 9, 51, 65, 85, 97, 129, 133, 139, 162 -, starch gel 9, 51, 65, 85, 97, 129, 133, 139, 162 -, starch gel 9, 51, 65, 85, 97, 129, 133, 139, 162 -, starch gel 9, 51, 65, 85, 97, 129, 133, 139, 162 -, starch gel 9, 51, 65, 85, 97, 129, 133, 139, 162 -, starch gel 9, 51, 65, 85, 97, 129, 133, 139, 162 -, starch gel 9, 51, 65, 85, 97, 129, 133, 139, 162 -, starch gel 9, 51, 65, 85, 97, 129, 133, 139, 162 -, starch gel 9, 51, 65, 85, 97, 129, 133, 139, 162 -, starch gel 9, 51, 65, 85, 97, 129, 133, 139, 162 -, starch gel 9, 51, 65, 85, 97, 129, 133, 139, 162 -, starch	autoradiography	37, 51, 133	-			13
blood group antigen 3 goose 129 blood group system, B 47 halothane 253 Bovidae 175 Hardy-Weinberg equilibrium 55 breed frequency 207, 239 hemoglobin 79, 183 buffalo 175 hemopexin 151 -, water 105, 133 heterozygosity 69 carbonic anhydrase 65 heterozygosity 69 carbonic anhydrase 65 heterozygosity cell line 175 immunoelectrophoresis, rocket 197 cell line 175 immunoelectrophoresis, rocket 197 cellogel electrophoresis 175 immunoelectrophoresis, rocket 197 cellogel electrophoresis 175 immunoelectrophoresis 123 chicken 215 immunoglobulin G 59 chimaerism 165 -, erythrocyte 3 isoelectric focusing 207 -, germ cell 3 lactase dehydrogenase 139 Cobytis biwae 187 Landrace 253 Cobytis biwae 188 linkage 151, 169, 191 conalbumin 129 lipoprotein 21 Cyprinidae 139 -, low-density 21 donkey 9 loach 183, 187 electrophoresis, cellogel 175 - antigen 47 -, immunofixation 123 major histocompatibility complex 115 -, polyacrylamide gel 29, 37 -, starch gel 9, 51, 65, 85, 97, 129, 133, 139, 161, 181, 183, 187, 191, 215, 229, 239 electrophoretic variant 51, 79, 151 Misquiruus anguillicaudatus 105	B blood group system	47	germ cell chimaerism			3
Blood group system, B	bison	65	glycoprotein			41
Bovidae	blood group antigen	3	goose			129
Bovidae	blood group system, B	47	halothane			253
buffalo		175	Hardy-Weinberg equilibrium			55
buffalo	breed frequency	207, 239	hemoglobin		79,	183
carbonic anhydrase         65         heterozygous excess         55           cattle 3, 21, 37, 47, 59, 65, 105, 133, 175, 181,         histocompatibility complex, major         115           191, 229         horse 29, 37, 41, 97, 123, 127, 169, 197, 207           cell line         175         immunoelectrophoresis, rocket         197           cellogel electrophoresis         175         immunofixation electrophoresis         123           chicken         215         immunoglobulin G         59           chimaerism         inheritance, red cell         215           -, erythrocyte         3 isoelectric focusing         207           -, germ cell         3 lactase dehydrogenase         139           Cobytis biwae         187         Landrace         253           Cobytis delicata         183         linkage         151, 169, 191           conalbumin         129         lipoprotein         21           dynkey         9 loach         183, 187           electrofocusing         51         low-density lipoprotein         21           electrophoresis         123         major histocompatibility complex         115           -, Cellogel         175         antigen         47           -, immunofixation         123 </td <td></td> <td>175</td> <td>hemopexin</td> <td></td> <td></td> <td>151</td>		175	hemopexin			151
cattle 3, 21, 37, 47, 59, 65, 105, 133, 175, 181, histocompatibility complex, major 115 191, 229 horse 29, 37, 41, 97, 123, 127, 169, 197, 207 cell line 175 immunoelectrophoresis, rocket 197 cellogel electrophoresis 175 immunoglobulin G 59 chimaerism inheritance, red cell 215 chicken 215 immunoglobulin G 59 chimaerism inheritance, red cell 215 conditions 207 a lactase dehydrogenase 139 Cobytis biwae 187 Landrace 253 Cobytis delicata 183 linkage 151, 169, 191 conalbumin 129 lipoprotein 21 Cyprinidae 139 chow-density 21 low-density 21 donkey 9 loach 183, 187 electrofocusing 51 low-density lipoprotein 21 lymphocyte 115 chow-density lipoprotein 22 lymphocyte 115 chow-density lipoprotein 21 lymphocyte 115 chow-density lipoprotein 22 lymphocyte 115 cho	-, water	105, 133	heterozygosity			69
cell line 175 immunoelectrophoresis, rocket 197 cellogel electrophoresis 175 immunoelectrophoresis, rocket 197 cellogel electrophoresis 175 immunofixation electrophoresis 123 chicken 215 immunoglobulin G 59 chimaerism inheritance, red cell 215 chicken 215 immunoglobulin G 59 chimaerism inheritance, red cell 215 chicken 215 immunoglobulin G 59 chimaerism 207 chy erythrocyte 3 isoelectric focusing 207 chy erythrocyte 3 lactase dehydrogenase 139 chy tis biwae 187 Landrace 253 Cobytis biwae 188 linkage 151, 169, 191 conalbumin 129 lipoprotein 21 cyprinidae 139 chow-density 21 chow-density 21 donkey 9 loach 183, 187 electrofocusing 51 low-density lipoprotein 21 lymphocyte 115 chy electrophoresis 1 lymphocyte 1 low-density lipoprotein 1 lymphocyte 1 lympho	carbonic anhydrase	65	heterozygous excess			55
cell line 175 immunoelectrophoresis, rocket 197 cellogel electrophoresis 175 immunoelectrophoresis, rocket 197 cellogel electrophoresis 175 immunofixation electrophoresis 123 chicken 215 immunoglobulin G 59 chimaerism inheritance, red cell 215 chicken 215 immunoglobulin G 59 chimaerism inheritance, red cell 215 chicken 215 immunoglobulin G 59 chimaerism 207 chy erythrocyte 3 isoelectric focusing 207 chy erythrocyte 3 lactase dehydrogenase 139 chy tis biwae 187 Landrace 253 Cobytis biwae 188 linkage 151, 169, 191 conalbumin 129 lipoprotein 21 cyprinidae 139 chow-density 21 chow-density 21 donkey 9 loach 183, 187 electrofocusing 51 low-density lipoprotein 21 lymphocyte 115 chy electrophoresis 1 lymphocyte 1 low-density lipoprotein 1 lymphocyte 1 lympho	cattle 3, 21, 37, 47, 59, 65, 105	, 133, 175, 181,	histocompatibility complex,	major		115
cellogel electrophoresis         175         immunofixation electrophoresis         123           chicken         215         immunoglobulin G         59           chimaerism         inheritance, red cell         215           -, erythrocyte         3         isoelectric focusing         207           -, germ cell         3         lactase dehydrogenase         139           Cobytis biwae         187         Landrace         253           Cobytis delicata         183         linkage         151, 169, 191           conalbumin         129         lipoprotein         21           Cyprinidae         139         -, low-density         21           donkey         9         loach         183, 187           electrofocusing         51         low-density lipoprotein         21           ymphocyte         115         -, immunofixation         21           -, immunofixation         123         major histocompatibility complex         115           -, starch gel 9, 51, 65, 85, 97, 129, 133, 139,         membrane         41           -, starch gel 9, 51, 65, 85, 97, 129, 133, 139,         method         65           electrophoretic variant         51, 79, 151         Misgurnus anguillicaudatus         13			horse 29, 37, 41, 97, 123, 12	27, 169,	197,	207
chicken         215         immunoglobulin G         59           chimaerism         inheritance, red cell         215           -, erythrocyte         3 isoelectric focusing         207           -, germ cell         3 lactase dehydrogenase         139           Cobytis biwae         187         Landrace         253           Cobytis delicata         183         linkage         151, 169, 191           conalbumin         129         lipoprotein         21           Cyprinidae         139         -, low-density         21           donkey         9 loach         183, 187           electrofocusing         51         low-density lipoprotein         21           lymphocyte         115         -, antigen         47           -, immunofixation         123         major histocompatibility complex         115           -, polyacrylamide gel         29, 37         marker, genetic         97, 127, 161           -, starch gel 9, 51, 65, 85, 97, 129, 133, 139,         membrane         41           161, 181, 183, 187, 191, 215, 229, 239         method         65           electrophoretic variant         51, 79, 151         Misgurnus anguillicaudatus         13           electrophoretic variant         51, 79, 151<	cell line	175	immunoelectrophoresis, rocke	et		197
chimaerism         inheritance, red cell         215           -, erythrocyte         3 isoelectric focusing         207           -, germ cell         3 lactase dehydrogenase         139           Cobytis biwae         187 Landrace         253           Cobytis delicata         183 linkage         151, 169, 191           conalbumin         129 lipoprotein         21           Cyprinidae         139 -, low-density         21           donkey         9 loach         183, 187           electrofocusing         51 low-density lipoprotein         21           electrophoresis         lymphocyte         115           -, Cellogel         175         - antigen         47           -, immunofixation         123         major histocompatibility complex         115           -, starch gel 9, 51, 65, 85, 97, 129, 133, 139,         membrane         41           -, starch gel 9, 51, 65, 85, 97, 129, 133, 139,         membrane         41           161, 181, 183, 187, 191, 215, 229, 239         method         65           electrophoretic variant         51, 79, 151         Misgurnus anguillicaudatus         13           enzyme assay         197         molecular evolution         105	cellogel electrophoresis	175	immunofixation electrophore	sis		123
-, erythrocyte         3         isoelectric focusing         207           -, germ cell         3         lactase dehydrogenase         139           Cobytis biwae         187         Landrace         253           Cobytis delicata         183         linkage         151, 169, 191           conalbumin         129         lipoprotein         21           Cyprinidae         139         -, low-density         21           donkey         9         loach         183, 187           electrofocusing         51         low-density lipoprotein         21           lymphocyte         115         -, cellogel         175         - antigen         47           -, immunofixation         123         major histocompatibility complex         115           -, starch gel 9, 51, 65, 85, 97, 129, 133, 139, 131, 132         membrane         41           -, starch gel 9, 51, 65, 85, 97, 129, 133, 139, 161, 181, 181, 183, 187, 191, 215, 229, 239         method         65           electrophoretic variant         51, 79, 151         Misgurnus anguillicaudatus         13           enzyme assay         197         molecular evolution         105	chicken	215	immunoglobulin G			59
-, germ cell         3         lactase dehydrogenase         139           Cobytis biwae         187         Landrace         253           Cobytis delicata         183         linkage         151, 169, 191           conalbumin         129         lipoprotein         21           Cyprinidae         139         -, low-density         21           donkey         9         loach         183, 187           electrofocusing         51         low-density lipoprotein         21           electrophoresis         lymphocyte         115           -, Cellogel         175         - antigen         47           -, immunofixation         123         major histocompatibility complex         115           -, starch gel 9, 51, 65, 85, 97, 129, 133, 139,         marker, genetic         97, 127, 161           -, starch gel 9, 51, 65, 85, 97, 129, 133, 139,         membrane         41           161, 181, 183, 187, 191, 215, 229, 239         method         65           electrophoretic variant         51, 79, 151         Misgurnus anguillicaudatus         13           enzyme assay         197         molecular evolution         105	chimaerism		inheritance, red cell			215
Cobytis biwae         187         Landrace         253           Cobytis delicata         183         linkage         151, 169, 191           conalbumin         129         lipoprotein         21           Cyprinidae         139         -, low-density         21           donkey         9         loach         183, 187           electrofocusing         51         low-density lipoprotein         21           lymphocyte         115         -, Cellogel         175         - antigen         47           -, immunofixation         123         major histocompatibility complex         115           -, polyacrylamide gel         29, 37         marker, genetic         97, 127, 161           -, starch gel 9, 51, 65, 85, 97, 129, 133, 139, 161, 181, 183, 187, 191, 215, 229, 239         method         65           electrophoretic variant         51, 79, 151         Misgurnus anguillicaudatus         13           enzyme assay         197         molecular evolution         105	-, erythrocyte	3	isoelectric focusing			207
Cobytis delicata         183         linkage         151, 169, 191           conalbumin         129         lipoprotein         21           Cyprinidae         139         -, low-density         21           donkey         9         loach         183, 187           electrofocusing         51         low-density lipoprotein         21           lectrophoresis         lymphocyte         115           -, Cellogel         175         - antigen         47           -, immunofixation         123         major histocompatibility complex         115           -, polyacrylamide gel         29, 37         marker, genetic         97, 127, 161           -, starch gel 9, 51, 65, 85, 97, 129, 133, 139,         membrane         41           161, 181, 183, 187, 191, 215, 229, 239         method         65           electrophoretic variant         51, 79, 151         Misgurnus anguillicaudatus         13           enzyme assay         197         molecular evolution         105	-, germ cell	3	lactase dehydrogenase			
conalbumin         129         lipoprotein         21           Cyprinidae         139         -, low-density         21           donkey         9         loach         183, 187           electrofocusing         51         low-density lipoprotein         21           electrophoresis         lymphocyte         115           -, Cellogel         175         - antigen         47           -, immunofixation         123         major histocompatibility complex         115           -, polyacrylamide gel         29, 37         marker, genetic         97, 127, 161           -, starch gel 9, 51, 65, 85, 97, 129, 133, 139,         membrane         41           161, 181, 183, 187, 191, 215, 229, 239         method         65           electrophoretic variant         51, 79, 151         Misgurnus anguillicaudatus         13           enzyme assay         197         molecular evolution         105	Cobytis biwae	187	Landrace			253
Cyprinidae         139         -, low-density         21           donkey         9         loach         183, 187           electrofocusing         51         low-density lipoprotein         21           electrophoresis         lymphocyte         115           -, Cellogel         175         - antigen         47           -, immunofixation         123         major histocompatibility complex         115           -, polyacrylamide gel         29, 37         marker, genetic         97, 127, 161           -, starch gel 9, 51, 65, 85, 97, 129, 133, 139,         membrane         41           161, 181, 183, 187, 191, 215, 229, 239         method         65           electrophoretic variant         51, 79, 151         Misgurnus anguillicaudatus         13           enzyme assay         197         molecular evolution         105	Cobytis delicata	183	linkage	151.	, 169,	, 191
donkey         9         loach         183, 187           electrofocusing         51         low-density lipoprotein         21           electrophoresis         lymphocyte         115           -, Cellogel         175         - antigen         47           -, immunofixation         123         major histocompatibility complex         115           -, polyacrylamide gel         29, 37         marker, genetic         97, 127, 161           -, starch gel 9, 51, 65, 85, 97, 129, 133, 139,         membrane         41           161, 181, 183, 187, 191, 215, 229, 239         method         65           electrophoretic variant         51, 79, 151         Misgurnus anguillicaudatus         13           enzyme assay         197         molecular evolution         105	conalbumin	129	lipoprotein			
electrofocusing         51         low-density lipoprotein         21           electrophoresis         lymphocyte         115           -, Cellogel         175         - antigen         47           -, immunofixation         123         major histocompatibility complex         115           -, polyacrylamide gel         29, 37         marker, genetic         97, 127, 161           -, starch gel 9, 51, 65, 85, 97, 129, 133, 139, 161, 181, 183, 187, 191, 215, 229, 239         membrane         41           electrophoretic variant enzyme assay         51, 79, 151         Misgurnus anguillicaudatus         13           molecular evolution         105	Cyprinidae	139	-, low-density			21
electrophoresis         lymphocyte         115           -, Cellogel         175         - antigen         47           -, immunofixation         123         major histocompatibility complex         115           -, polyacrylamide gel         29, 37         marker, genetic         97, 127, 161           -, starch gel 9, 51, 65, 85, 97, 129, 133, 139, 161, 181, 183, 187, 191, 215, 229, 239         membrane         41           electrophoretic variant enzyme assay         51, 79, 151         Misgurnus anguillicaudatus molecular evolution         105	donkey	9	loach		183,	187
-, Cellogel 175 - antigen 47 -, immunofixation 123 major histocompatibility complex 115 -, polyacrylamide gel 29, 37 marker, genetic 97, 127, 161 -, starch gel 9, 51, 65, 85, 97, 129, 133, 139, 161, 181, 183, 187, 191, 215, 229, 239 method 65 electrophoretic variant 51, 79, 151 molecular evolution 105	electrofocusing	51	low-density lipoprotein			21
-, immunofixation 123 major histocompatibility complex 115 -, polyacrylamide gel 29, 37 -, starch gel 9, 51, 65, 85, 97, 129, 133, 139, 161, 181, 183, 187, 191, 215, 229, 239 electrophoretic variant 51, 79, 151 enzyme assay 197 molecular evolution 115  major histocompatibility complex 115 marker, genetic 97, 127, 161 membrane 41 method 65 Misgurnus anguillicaudatus 13 molecular evolution 105	electrophoresis		lymphocyte			115
-, polyacrylamide gel 29, 37 marker, genetic 97, 127, 161 -, starch gel 9, 51, 65, 85, 97, 129, 133, 139, membrane 41 161, 181, 183, 187, 191, 215, 229, 239 method 65 electrophoretic variant 51, 79, 151 molecular evolution 105	-, Cellogel	175	<ul><li>antigen</li></ul>			47
-, starch gel 9, 51, 65, 85, 97, 129, 133, 139, membrane 41 161, 181, 183, 187, 191, 215, 229, 239 method 65 electrophoretic variant 51, 79, 151 molecular evolution 105 enzyme assay 197 molecular evolution 105	-, immunofixation	123	major histocompatibility com	plex		115
161, 181, 183, 187, 191, 215, 229, 239       method       65         electrophoretic variant       51, 79, 151       Misgurnus anguillicaudatus       13         enzyme assay       197       molecular evolution       105	-, polyacrylamide gel	29, 37	marker, genetic	97.	127,	, 161
electrophoretic variant 51, 79, 151 Misgurnus anguillicaudatus 13 enzyme assay 197 molecular evolution 105	-, starch gel 9, 51, 65, 85, 97	, 129, 133, 139,	membrane			41
enzyme assay 197 molecular evolution 105			method			
	electrophoretic variant	51, 79, 151	Misgurnus anguillicaudatus			13
enzyme polymorphism 223 mouse ·85	enzyme assay		molecular evolution			
	enzyme polymorphism	223	mouse			- 85

## INDEXES

NADH diaphorase	161, 239	rabbit	51, 151
null allele	197	red cell	
OLA	115	- antigen	41, 47
Oryctolagus cuniculus	151	- inheritance	215
phosphoglucomutase	187	rocket immunoelectrophores	is 197
phosphoglucose isomerase	253	scallop	69
phosphohexose isomerase	253	Scrobicularia plana	223
phylogeny	105	serum esterase	197, 207
pig	245, 253	sheep 47,	115, 161, 239, 245
polyacrylamide gel electrophoresis 29, 37		starch gel electrophoresis 9, 51, 65, 85, 97, 129,	
polymorphism 51, 59, 79, 8	5, 97, 105, 123, 127,	133, 139, 161, 181, 183, 1	87, 191, 215, 229,
	129, 139, 175		239
-, albumin	9	transferrin	129
-, enzyme	223	turkey	215
-, protein	13, 183, 191, 245	twin	3
population genetics	183	variant	
post-albumin	29, 37, 127	-, albumin	181
prealbumin	97, 127	-, electrophoretic	51, 79, 151
protein		variation, geographic	13
-, Gc	29, 37, 123, 169	vitamin B <sub>12</sub> binding protein	51
-, muscle	183	vitamin D binding protein	29, 37, 133, 169
<ul><li>polymorphism</li></ul>	13, 183, 191, 245	water buffalo	105, 133
-, vitamin B <sub>12</sub> binding	51	xanthine oxidase	85
-, vitamin D binding	29, 37, 133, 169		

## Author index to Volume 9 (1978)

Aagaard, L., see Larsen, B.	191
Akita, T., see Watanabe, S.	253
Andresen, E., A note on deviation from Hardy-Weinberg proportions due to differences	
in gene frequencies between parental males and females	55
Ansay, M., see Carleer, J.	175
Archibald, A. L. & R. L. Spooner, Further studies on bovine serum amylase - the effect	
of gel buffer pH	229
Beardmore, J. A., see Skibinski, D. O. F.	223
Blake, J. G. & C. L. Douglas, Albumin polymorphism in the feral ass of Death Valley	
National Monument, California	9
Carleer, J., PP. Pastoret & M. Ansay, Isozyme characterization of cattle (Bos taurus)	
and American buffalo (Bison bison) cell cultures	175
Čepica, S. & A. Stratil, Further studies on sheep polymorphic erythrocyte diaphorase	239
Cianfriglia, M., see Iannelli, D.	21
Cleve, H., see Gürtler, L. G.	41
Cohen, C., see Hagen, K. L.	151
Crowley, C., see Tucker, E. M.	161
Cwik, S., see Schmid, D. O.	47
De Benedictis, G., see Iannelli, D.	21
Douglas, C. L, see Blake, J. G.	9
Fisher, R. A. & A. M. Scott, Isoelectric focusing of horse serum esterase isozymes and	
detection of new phenotypes	207
Gahne, B. & R. K. Juneja, Polymorphic post-albumin of cattle and horse plasma identified	
as vitamin D binding protein (Gc protein)	37

Color D and Lucia D V	00
Gahne, B., see Juneja, R. K. Grunder, A. A. & K. G. Hollands, Inheritance of adenosine deaminase variants in chickens	29
and turkeys Gürtler, L. G., D. O. Schmid, D. A. Yeboa & H. Cleve, Presence of horse blood group	215
antigens in the major glycoprotein fraction of the erythrocyte membrane Hagen, K. L., Y. Suzuki, R. Tissot and C. Cohen, The hemopexin locus: Its assignment to Linkage Group I in the laboratory rabbit (Oryctolagus cuniculus) and evidence for a	41
fourth allele	151
Himeno, K., see Watanabe, S.	253
Hojný, J. & A. Stratil, Report on the Pig and Sheep Blood Group and Polymorphic	
Protein Workshops (Liběchov, 9 to 11 August 1978)	245
Hollands, K. G., see Grunder, A. A.	215
Hyldgaard-Jensen, J., see Yarsen, B.	191
Iannelli, D., Water buffalo (Bubalis bubalus Arnee) allotypes: identification of a multiple	105
allelic system  Langelli D. H. Oresto B. Masino G. De Beredictio & M. Cionfrielio Constico of a low	105
Iannelli, D., U. Oreste, P. Masina, G. De Benedictis & M. Cianfriglia, Genetics of a low- density lipoprotein allotype in cattle	21
	133
Juneja, R. K., B. Gahne & K. Sandberg, Genetic polymorphism of the vitamin D binding	133
protein and another post-albumin protein in horse serum	29
Juneja, R. K., see Gahne, B.	37
Juneja, R. K., see Sandberg, K.	169
Kaminski, M., The null allele in the horse esterase (Es) system detected by enzyme assay	107
and rocket immunoelectrophoresis in heterozygous animals	197
Kimura, M., Protein polymorphism and geographic variation in the loach <i>Misgurnus</i>	171
anguillicaudatus	13
Kimura, M., Protein polymorphism and genic variation in a population of the loach	
Cobitis delicata	183
Kimura, M., Phosphoglucomutase electrophoretic patterns of the loach <i>Cobitis biwae</i> Larsen, B., J. Hyldegaard-Jensen & L. Aagaard, Studies on adenosine deaminase (ADA)	187
polymorphism in Danish cattle	191
Leary, T. R., A. staining procedure for cattle and bison carbonic anhydrase using fluorescein diacetate	65
Lush, I. A., Genetic variation of some aldehyde-oxidizing enzymes in the mouse	85
McNee, A. R., see Skibinski, D. O. F.	223
Masina, P., L. Ramunno & D. Iannelli, Polymorphism of vitamin B <sub>12</sub> [57Co] binding	51
proteins in rabbit serum  Masina, P., L. Ramunno & D. Iannelli, Polymorphism of <sup>14</sup> C vitamin D <sub>3</sub> binding protein	51
in cattle and water buffalo serum	133
Masina, P., see Iannelli, D.	21
Mikami, H., see Watanabe, S.	253
Millot, P., The major histocompatibility complex of sheep (OLA) and two minor loci	115
Omi, T., see Tanabe, Y.	79
Oreste, U., see Iannelli, D.	21
Ôta, K., see Tanabe, Y.	79
Pastoret, PP., see Carleer, J.	175
Ramunno, L., see Masina, P. 51	l, 133
Rensmeyer, W., see Schmid, D. O.	47
Ross, D. S. & W. J. Thomas, The possibility of germ cell chimaerism in dizygotic twin bulls	3
Sandberg, K. & R. K. Juneja, Close linkage between the albumin and Gc loci in the horse	169
Sandberg, K., see Juneja, R. K.	29
Sang Kee Han, see Suzuki, S.	181
Schmid, D. O., W. Rensmeyer & S. Cwik, Red cell associated antigens of the B blood	
group system on bovine and sheep lymphocytes	47
Schmid, D. O., see Gürtler, L. G.	41

## **INDEXES**

Scott, A. M., see Fisher, R. A.	207
Skibinski, D. O. F., A. R. McNee & J. A. Beardmore, Protein variation in the marine	
bivalve Scrobicularia plana	223
Spooner, R. L. see Archibald, A. L.	229
Stratil, A., see Valenta, M.	129
Stratil, A., see Čepica, S.	239
Stratil, A., see Hojný, J.	245
Suzuki, S. & Sang Kee Han, Studies on serum albumin in Korean cattle	181
Suzuki, Y., see Trommershausen-Smith, A. 97,	127
Suzuki, Y., see Hagen, K. L.	151
Tanabe, Y., T. Omi & K. Ôta, Genetic variants of hemoglobin in canine erythrocytes	79
Thomas, W. J., see Ross, D. S.	3
Tissot, R., see Hagen, K. L.	151
Trommershausen-Smith, A. & Y. Suzuki, A new allele in the prealbumin system of horse	
serum markers	97
Trommershausen-Smith, A. & Y. Suzuki, Identity of Xk and Pa systems in equine serum	127
Tucker, E. M. & C. Crowley, NADH diaphorase as a genetic marker for sheep red cells	161
Valenta, M., Polymorphism of A, B and C loci of lactate dehydrogenase in European fish	
species of the Cyprinidae family	139
Valenta, M. & A. Stratil, Polymorphism of transferrin and conalbumin in the domestic	
goose (Anser anser)	129
Valenta, M. et al., Erratum to a previous paper	150
Watanabe, S., T. Akita, H. Mikami & K. Himeno, Further evidence for the existence of	
the [PHIA, HALn] haplotype in the Landrace breed	253
Węgrzyn, J. & Z. Węgrzyn, Allelism of genes determining two IgGl allotypes in cattle	59
Węgrzyn, Z., see Węgrzyn, J.	59
Weitkamp, L. R., Equine markers genes. Polymorphism for group-specific component (Gc)	123
Wilkins, N. P., Length-correlated changes in heterozygosity at an enzyme locus in the	
scallop (Pecten maximus L.)	69
Yeboa, D. A., see Gürtler, L. G.	41
Society news	
16th ISABR Conference – Conclusions of the special session on cattle blood groups	195
Advance notice (17th ISABR Conference)	196
International Symposium on cytogenetics and disease resistance	196

